

3 DAY 2 WORKSHEET - Slope Intercept Form (5B)

CRYPTIC QUIZ

1. Why did the little girl paint spots on the staircase?

Answer: S H E W A S A S T E P D O T T E R
14 7 4 3 11 14 11 14 15 4 1 9 2 15 15 4 12

2. What do you call a thirty-six-inch two-by-four?

Answer: A L U M B E R Y A R D
11 10 6 13 8 4 12 5 11 12 9Solve each equation for y in terms of x . Find your answer below and notice the letter next to it. Each time the exercise number appears in the code, write this letter above it.

① $x + y = 5$

② $-3x + y = -2$

③ $x - y = 7$

④ $-4x - y = 1$

⑤ $3x - y = -10$

Answers:

⑤ $y = -4x - 1$ 4

③ $y = 3x - 1$

② $y = -x + 5$ 1

③ $y = x - 7$ 3

⑤ $y = 3x + 10$ 5

⑤ $y = 3x - 2$ 2

⑥ $-x + 2y = 6$

⑦ $x - 2y = 2$

⑧ $-2x + 3y = -12$

⑨ $5x + 2y = 1$

⑩ $4x - 3y = -2$

Answers:

⑩ $y = -\frac{5}{2}x + \frac{1}{2}$ 9

⑦ $y = \frac{1}{2}x + 3$ 6

⑩ $y = \frac{4}{3}x + \frac{2}{3}$ 10

③ $y = \frac{3}{4}x - 4$

⑦ $y = \frac{1}{2}x - 1$ 7

⑧ $y = \frac{2}{3}x - 4$ 8

⑪ $3x + 2y - 6 = 0$

⑫ $x - 4y + 2 = 0$

⑬ $-2x - 6y = 0$

⑭ $8y - 3x = -6$

⑮ $7x = 2y$

Answers:

⑮ $y = \frac{4}{3}x + \frac{1}{4}$

⑬ $y = \frac{3}{8}x - \frac{3}{4}$ 14

⑫ $y = \frac{1}{4}x + \frac{1}{2}$ 12

⑪ $y = -\frac{3}{2}x + 3$ 11

⑮ $y = \frac{7}{2}x$ 15

⑮ $y = -\frac{1}{3}x$ 13

5.3 day 2 WORKSHEET "CRYPTIC QUIZ"

P. 1

$$1.) \begin{array}{r} \cancel{x} + y = 5 \\ -x \quad -x \\ \hline y = -x + 5 \end{array}$$

$$2.) \begin{array}{r} \cancel{-3x} + y = -2 \\ +3x \quad +3x \\ \hline y = 3x - 2 \end{array}$$

$$3.) \begin{array}{r} \cancel{x} - y = 7 \\ -x \quad -x \\ \hline -y = -x + 7 \\ \hline -1 \quad -1 \quad -1 \\ y = x - 7 \end{array}$$

$$4.) \begin{array}{r} \cancel{-4x} - y = 1 \\ +y \quad +y \\ \hline -4x = y + 1 \\ \hline -1 \quad -1 \\ \hline -4x - 1 = y \end{array}$$

$$5.) \begin{array}{r} \cancel{3x} - y = -10 \\ -3x \quad -3x \\ \hline -y = -3x - 10 \\ \hline -1 \quad -1 \quad -1 \\ y = 3x + 10 \end{array}$$

$$6.) \begin{array}{r} \cancel{-x} + 2y = 6 \\ +x \quad +x \\ \hline 2y = x + 6 \\ \hline \frac{2}{2} \quad \frac{x}{2} \quad \frac{6}{2} \\ y = \frac{1}{2}x + 3 \end{array}$$

$$7.) \begin{array}{r} \cancel{x} - 2y = 2 \\ -x \quad -x \\ \hline -2y = -x + 2 \\ \hline -2 \quad -2 \quad -2 \\ y = \frac{1}{2}x - 1 \end{array}$$

$$8.) \begin{array}{r} \cancel{-2x} + 3y = -12 \\ +2x \quad +2x \\ \hline 3y = 2x - 12 \\ \hline \frac{3}{3} \quad \frac{2x}{3} \quad \frac{-12}{3} \\ y = \frac{2}{3}x - 4 \end{array}$$

5.3 day 2 WORKSHEET "CRYPTIC QUIZ"

P. 2

$$\begin{array}{rcl}
 9.) \quad 5x + 2y = 1 & & \\
 \underline{-5x} & \underline{-5x} & \\
 2y = -5x + 1 & & \\
 \frac{2}{2} & \frac{-5x}{2} & \frac{1}{2} \\
 y = -\frac{5}{2}x + \frac{1}{2}
 \end{array}$$

$$\begin{array}{rcl}
 10.) \quad 4x - 3y = -2 & & \\
 \underline{-4x} & \underline{-4x} & \\
 -3y = -4x - 2 & & \\
 \frac{-3}{-3} & \frac{-4x}{-3} & \frac{-2}{-3} \\
 y = \frac{4}{3}x + \frac{2}{3}
 \end{array}$$

$$\begin{array}{rcl}
 11.) \quad 3x + 2y - 6 = 0 & & \\
 \underline{-2y} & \underline{-2y} & \\
 3x - 6 = -2y & & \\
 \frac{-2}{-2} & \frac{-6}{-2} & \frac{-2y}{-2} \\
 -\frac{3}{2}x + 3 = y
 \end{array}$$

$$\begin{array}{rcl}
 12.) \quad x - 4y + 2 = 0 & & \\
 \underline{+4y} & \underline{+4y} & \\
 x + 2 = 4y & & \\
 \frac{4}{4} & \frac{2}{4} & \frac{4y}{4} \\
 \frac{1}{4}x + \frac{1}{2} = y
 \end{array}$$

$$\begin{array}{rcl}
 13.) \quad -2x - 6y = 0 & & \\
 \underline{+6y} & \underline{+6y} & \\
 -2x = 6y & & \\
 \frac{6}{6} & \frac{6y}{6} & \\
 -\frac{1}{3}x = y
 \end{array}$$

$$\begin{array}{rcl}
 14.) \quad 8y - 3x = -6 & & \\
 \underline{+3x} & \underline{+3x} & \\
 8y = 3x - 6 & & \\
 \frac{8}{8} & \frac{3x}{8} & \frac{-6}{8} \\
 y = \frac{3}{8}x - \frac{3}{4}
 \end{array}$$

$$\begin{array}{rcl}
 15.) \quad 7x = 2y & & \\
 \frac{7}{7} & \frac{2y}{7} & \\
 x = \frac{2}{7}y
 \end{array}$$